



P.O. BOX 110
3580 SALT POINT ROAD
WATKINS GLEN, NY 14891-0110
607/535-2721

November 11, 2014

US EPA Region 2
Attention: Nicole Foley Kraft, Chief
Groundwater Compliance Section
290 Broadway, 20th Floor
New York, NY 10007-1866

Re.: MITs – US Salt LLC Brinefield
Re: 11NY08104019

Dear Ms Kraft:

Our Process Engineer, David Crea, has completed MIT work on nine wells in the US Salt LLC brinefield.

Enclosed please find copies of:

1. MIT reports for wells 47, 48, 50, 51, 55, 56, 60, 61 and 62.

If you have any questions or need additional information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Frank Pastore'.

Frank Pastore
Plant Manager

xc: Luis Rodriguez – USEPA Region 2
Linda Collart – NYSDEC Region 8 (2)
David Crea



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November 5, 2014

Nicole Foley Kraft, Chief
Ground Water Compliance Section
US Environmental Protection Agency
290 Broadway, 20th Floor
New York, NY 10007-1866

Re: 2014 MIT of US Salt's Well 61, API # 31-097-22770
US Salt Class III UIC Permit # NYU063860

Dear Ms. Kraft:

Well 61 passed its Casing Mechanical Integrity Test (MIT) using Water-Brine Interface Method on November 4, 2014. Mechanical Integrity of its 7" Production Casing was demonstrated, as required in the UIC Permit.

[REDACTED]
[REDACTED]
Well 61 was loaded with [REDACTED]
[REDACTED]. It was temperature-equilibrated and the test period data collection was on Tuesday November 4, 2014. On each well, Ashcroft Precision Digital Pressure Gauges (with sensitivity to at least 0.1 psi, and within their Valid Calibration-Period) were used for pressure measurement.

Absolute Value of Net Pressure Change Rate (NPCR) was [REDACTED]
[REDACTED].

The Well 61 Construction and Status Information with MIT Data Record is attached.

A handwritten signature in black ink, appearing to read 'David A. Crea'.

David A. Crea, PE
Process Engineer
US Salt, LLC, Watkins Glen, NY

Attachment: Well 61 Information and MIT Data Record for 11/4/14 Test.

Cc: USEPA Region 2; Re: 11NY08104019 Attn: Luis Rodriquez
NYS DEC -- Avon; Attn: Linda Collart (2)
Brinefield File – Well 61 Operation

Well 61 Information, Data and Calculations for the Water-Brine Interface MIT Method **CONFIDENTIAL**

For Class III Salt Solution Mining Wells Operated by US Salt, LLC, Watkins Glen, NY

US Salt Well #:	61	API #:	31-097-22770	Date Prepared:	November 4, 2014
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Well Construction & Status Data: Prepared By: David A. Crea, P.E.

Date Drilled:	April 1999			Cementing Notes:	
Elevation:	793 ft				
Surface Casing Size:	16"	Weight:	52#/ft	Length:	95 ft
Protection Casing:	10-3/4"	Weight:	51#/ft	Length:	1970 ft
Production Casing:	7"	Weight:	23#/ft	Length:	
Prod'n Casing Liner:	none	Weight:	---	Length:	---
Tubing:	none	Weight:	---	Length:	---
Top of Salt Depth:	2114 ft				
Last Top of Cavity:		By Log Type:	SONAR	On Date:	February 19, 2013
Last Casing-Cut:					
Last Cavity TD:		By Log Type:	SONAR	On Date:	February 19, 2013
Bottom of Salt Depth:					
Original Total Depth:					

MIT Test Specific Data: Date of Test: November 4, 2014

Test Well Water-Fill: [Redacted]

Test Well	[Redacted]	
Well # 61	[Redacted]	
Fluid Specific Gravity:	[Redacted]	[Redacted]
Pressure Gauge SN:	1304548	1208275
Calibration Valid To:	April 20, 2015	April 1, 2015

See Note 1 re Pressure Gauges.

Time During Test:	Avg Pressure:		Avg Pressure:		Pressure Difference:	Remarks:
0700	[Redacted] psi	-	[Redacted] psi	=	[Redacted] psi	Start Test
0900	[Redacted] psi	-	[Redacted] psi	=	[Redacted] psi	
1100	[Redacted] psi	-	[Redacted] psi	=	[Redacted] psi	
1300	[Redacted] psi	-	[Redacted] psi	=	[Redacted] psi	
1500	[Redacted] psi	-	[Redacted] psi	=	[Redacted] psi	End Test
Average Start:	[Redacted] psi	-	[Redacted] psi	=	[Redacted] psi	
Average End:	[Redacted] psi	-	[Redacted] psi	=	[Redacted] psi	
Start => End Change:	[Redacted] psi	-	[Redacted] psi	=	[Redacted] psi	

Calculation of Net Pressure Change Rate (NPCR), psi/hr = (Avg Starting dP - Avg Ending dP), psi / Test Duration, hrs

NPCR = [Redacted]

NPCR = [Redacted]

Is Absolute Value of NPCR < 0.05 psi/hr? YES. Therefore this well has PASSED its MIT.

Note 1: Well 61 Gauge is Ashcroft Precision Digital Test Gauge Type 2089, 0-600 psi span, 0.05% of span accuracy (+/-0.3 psi).
Well 62 Gauge is Ashcroft Precision Digital Test Gauge Type 2089, 0-2000 psi span, 0.25% of span accuracy (+/-5.0 psi).